

Author Index

Adda, S., see Yu, M.-F., 105 (1996) 155.

Allen, G.M., see McKenzie, D.K., 105 (1996) 69.

Amis, T.C., N. O'Neill, T. Van der Touw and A. Brancatisano, Control of epiglottic position in dogs: role of negative upper airway pressure, 105 (1996) 187.

Ayappa, I., L.V. Brown, P.M. Wang, N. Katzman, P. Houtz, E.N. Bruce and S.J. Lai-Fook, Effect of blood flow on capillary transit time and oxygenation in excised rabbit lung, 105 (1996) 203.

Bailey, K., see Yu, M.-F., 105 (1996) 155.

Banzett, R.B., Dynamic response characteristics of CO2-induced air hunger, 105 (1996) 47.

Beardsmore, C.S., see Waters, K.A., 105 (1996) 135.

Bernard, S.L., D.L. Luchtel, R.W. Glenny and S. Lakshminarayan, Bronchial circulation in the marsupial opossum, Didelphis marsupialis, 105 (1996) 77.

Boutellier, U., see Markov, G., 105 (1996) 179.

Brancatisano, A., see Amis, T.C., 105 (1996) 187.

Brass, E.P., see van Lunteren, E., 105 (1996) 171.

Breen, P.H., B. Mazumdar and S.C. Skinner, How does experimental pulmonary embolism decrease CO2 elimination?, 105 (1996) 217.

Brown, L.V., see Ayappa, I., 105 (1996) 203. Bruce, E.N., see Ayappa, I., 105 (1996) 203.

Canet, E., see Robineau, P., 105 (1996) 225.

Chediak, A.D., see Le Merre, C., 105 (1996) 235.

Cherniack, N.S., see Haxhiu, M.A., 105 (1996) 35.

Chou, C.L., see Freed, A.N., 105 (1996) 95.

Colebatch, H.J.H., C.K.Y. Ng and F.J. Maccioni, Inspiratory gas flow induced by cardiac systole, 105 (1996) 103.

Côté, A., see Waters, K.A., 105 (1996) 135.

Crance, J.P., see Haouzi, P., 105 (1996) 143.

Crapo, J.D., see Huang, Y.-C.T., 105 (1996) 109.

Croxton, T.L., see Freed, A.N., 105 (1996) 95.

Davey, M.G., T.J. Moss, G.J. McCrabb and R. Harding, Prematurity alters hypoxic and hypercapnic ventilatory responses in developing lambs, 105 (1996) 57.

Dempsey, J.A., see Manchanda, S., 105 (1996) 1.

Dhainaut, A., see Robineau, P., 105 (1996) 225.

Erickson, B.K., see Wagner, P.D., 105 (1996) 123.

Erokwu, B., see Haxhiu, M.A., 105 (1996) 35.

Ewaskiewicz, J.I., see Yu, M.-F., 105 (1996) 155.

Fracica, P.J., see Huang, Y.-C.T., 105 (1996) 109.

Freed, A.N., C.L. Chou, S.D. Fuller and T.L. Croxton, Ozoneinduced vagal reflex modulates airways reactivity in rabbits, 105 (1996) 95.

Fukuda, K., see Oh-ishi, S., 105 (1996) 195.

Fuller, S.D., see Freed, A.N., 105 (1996) 95.

Gandevia, S.C., see McKenzie, D.K., 105 (1996) 69.

Gang, S. and L. Lei, Reappraisal of the inspiratory effect of Bötzinger complex on phrenic nerve discharge, 105 (1996)

Ghosh, T.K., M.R. Van Scott and O.P. Mathew, Activation of water-responsive laryngeal afferents: role of epithelial ion transport, 105 (1996) 163.

Gille, J.P., see Haouzi, P., 105 (1996) 143.

Glenny, R.W., see Bernard, S.L., 105 (1996) 77.

Haga, S., see Oh-ishi, S., 105 (1996) 195.

Haouzi, P., J.J. Hirsh, J.P. Gille, F. Marchal, J.P. Crance and A. Huszczuk, Papaverine injection into the hindlimb circulation stimulates ventilation in sheep, 105 (1996) 143.

Harding, R., see Davey, M.G., 105 (1996) 57.

Harris, V., see Yu, M.-F., 105 (1996) 155

Haxhiu, M.A., K. Yung, B. Erokwu and N.S. Cherniack, CO2induced c-fos expression in the CNS catecholaminergic neurons, 105 (1996) 35.

Hiraga, A., see Wagner, P.D., 105 (1996) 123.

Hirsh, J.J., see Haouzi, P., 105 (1996) 143.

Houtz, P., see Ayappa, I., 105 (1996) 203.

Huang, Y.-C.T., P.J. Fracica, S.G. Simonson, J.D. Crapo, S.L. Young, K.E. Welty-Wolf, R.E. Moon and C.A. Piantadosi, VA/Q abnormalities during gram negative sepsis, 105 (1996)

Huszczuk, A., see Haouzi, P., 105 (1996) 143.

Kai, M., see Wagner, P.D., 105 (1996) 123.

Kane, K.A., see Karamsetty, V.S.N.M.R., 105 (1996) 85.

Karamsetty, V.S.N.M.R., M.R. MacLean, K.M. McCulloch, K.A. Kane and R.M. Wadsworth, Hypoxic constrictor response in the isolated pulmonary artery from chronically hypoxic rats, 105 (1996) 85.

Katzman, N., see Ayappa, I., 105 (1996) 203.

Kim, H.H., see Le Merre, C., 105 (1996) 235.

Kizaki, T., see Oh-ishi, S., 105 (1996) 195.

Kotlikoff, M.I., see Yu, M.-F., 105 (1996) 155.

Kubo, K., see Wagner, P.D., 105 (1996) 123.

Lai-Fook, S.J., see Ayappa, I., 105 (1996) 203.

Lakshminarayan, S., see Bernard, S.L., 105 (1996) 77.

Leevers, A.M., see Manchanda, S., 105 (1996) 1.

Lei, L., see Gang, S., 105 (1996) 17.

Le Merre, C., H.H. Kim, A.D. Chediak and A. Wanner, Airway blood flow responses to temperature and humidity of inhaled air, 105 (1996) 235.

Luchtel, D.L., see Bernard, S.L., 105 (1996) 77.

Maccioni, F.J., see Colebatch, H.J.H., 105 (1996) 103.

MacLean, M.R., see Karamsetty, V.S.N.M.R., 105 (1996) 85.

Manchanda, S., A.M. Leevers, C.R. Wilson, P.M. Simon, J.B. Skatrud and J.A. Dempsey, Frequency and volume thresholds for inhibition of inspiratory motor output during mechanical ventilation, 105 (1996) 1.

Marchal, F., see Haouzi, P., 105 (1996) 143.

Markov, G., R. Orler and U. Boutellier, Respiratory training, hypoxic ventilatory response and acute mountain sickness, 105 (1996) 179.

Mathew, O.P., see Ghosh, T.K., 105 (1996) 163.

Mazumdar, B., see Breen, P.H., 105 (1996) 217.

McCrabb, G.J., see Davey, M.G., 105 (1996) 57.

McCulloch, K.M., see Karamsetty, V.S.N.M.R., 105 (1996) 85.

McKenzie, D.K., G.M. Allen and S.C. Gandevia, Reduced voluntary drive to the human diaphragm at low lung volumes, 105 (1996) 69.

Meehan, B., see Waters, K.A., 105 (1996) 135.

Moon, R.E., see Huang, Y.-C.T., 105 (1996) 109.

Moss, I.R., see Waters, K.A., 105 (1996) 135.

Moss, T.J., see Davey, M.G., 105 (1996) 57.

Nagata, N., see Oh-ishi, S., 105 (1996) 195.

Ng, C.K.Y., see Colebatch, H.J.H., 105 (1996) 103.

Nolan, P.C. and T.G. Waldrop, In vitro responses of VLM neurons to hypoxia after normobaric hypoxic acclimatization, 105 (1996) 23.

Oh-ishi, S., K. Toshinai, T. Kizaki, S. Haga, K. Fukuda, N. Nagata and H. Ohno, Effects of aging and/or training on antioxidant enzyme system in diaphragm of mice, 105 (1996) 195.

Ohno, H., see Oh-ishi, S., 105 (1996) 195.

O'Neill, N., see Amis, T.C., 105 (1996) 187. Orler, R., see Markov, G., 105 (1996) 179.

Paquette, J., see Waters, K.A., 105 (1996) 135. Piantadosi, C.A., see Huang, Y.-C.T., 105 (1996) 109.

Robineau, P., A. Dhainaut and E. Canet, An almitrine analog acts as hypoxia in isolated rat lungs, 105 (1996) 225.

Seaman, J., see Wagner, P.D., 105 (1996) 123.

Sekhon, H.S. and W.M. Thurlbeck, Time course of lung growth following exposure to hypobaria and/or hypoxia in rats, 105 (1996) 241.

Simon, P.M., see Manchanda, S., 105 (1996) 1.

Simonson, S.G., see Huang, Y.-C.T., 105 (1996) 109.

Skatrud, J.B., see Manchanda, S., 105 (1996) 1.

Skinner, S.C., see Breen, P.H., 105 (1996) 217.

Sosnoski, D., see Yu, M.-F., 105 (1996) 155.

Thurlbeck, W.M., see Sekhon, H.S., 105 (1996) 241.

Tomasic, M., see Yu, M.-F., 105 (1996) 155. Toshinai, K., see Oh-ishi, S., 105 (1996) 195.

Van der Touw, T., see Amis, T.C., 105 (1996) 187.

Van Lunteren, E. and E.P. Brass, Metabolic profiles of cat and rat pharyngeal and diaphragm muscles, 105 (1996) 171.

Van Scott, M.R., see Ghosh, T.K., 105 (1996) 163.

Wadsworth, R.M., see Karamsetty, V.S.N.M.R., 105 (1996) 85. Wagner, P.D., B.K. Erickson, J. Seaman, K. Kubo, A. Hiraga,

M. Kai and Y. Yamaya, Effects of altered Fl_{O_2} on maximum \dot{V}_{O_2} in the horse, 105 (1996) 123.

Waldrop, T.G., see Nolan, P.C., 105 (1996) 23.

Wang, P.M., see Ayappa, I., 105 (1996) 203.

Wanner, A., see Le Merre, C., 105 (1996) 235.

Waters, K.A., C.S. Beardsmore, J. Paquette, B. Meehan, A. Côté and I.R. Moss, Respiratory responses to rapid-onset, repetitive vs. continuous hypoxia in piglets, 105 (1996) 135.

Welty-Wolf, K.E., see Huang, Y.-C.T., 105 (1996) 109.

Wilson, C.R., see Manchanda, S., 105 (1996) 1.

Wilson, J., see Yu, M.-F., 105 (1996) 155.

Yamaya, Y., see Wagner, P.D., 105 (1996) 123.

Young, S.L., see Huang, Y.-C.T., 105 (1996) 109.

Yu, M.-F., J.I. Ewaskiewicz, S. Adda, K. Bailey, V. Harris, D. Sosnoski, M. Tomasic, J. Wilson and M.I. Kotlikoff, Gene transfer by adenovirus in smooth muscle cells, 105 (1996)

Yung, K., see Haxhiu, M.A., 105 (1996) 35.



ELSEVIER

Respiration Physiology 105 (1996) 255-256



Subject Index

Acclimatization

hypoxia, VLM neurons, 23

Aging

diaphragm, enzyme, 195

Airways

blood flow (marsupial), 77

epithelium, ion transport, receptors, 163

reactivity, ozone, 95

tracheal smooth muscle, 155

acute mountain sickness, 179

Blood flow

bronchial, air temperature, humidity, 235

Bronchial circulation

marsupial (opossum), 77

catecholaminergic neurons, 35

Chemosensitivity

central, CO2, 35

Circulation

peripheral, stimulation of breathing, 143

pulmonary, hypoxic vasoconstriction, 225

Control of breathing

air hunger, 47

central chemosensitivity, 35, respiratory neurons, 17

hypoxia, VLM neurons, 23, sensitivity, preterm birth, 57

inhibition of motor output, 1

Dead space

pulmonary embolism, 217

Development

bronchial circulation (marsupial), 77

hypoxia, Sudden Infant Death, 135

lung, hypobaric hypoxia, 241

preterm birth, hypoxic sensitivity, 57

Diffusion

limitation, tissue, 123

Dyspnea

time course of air hunger, 47

Electric potential

transepithelial, airways, ozone, 95

Embolism

pulmonary, CO2 kinetics, 217

Endothelium

pulmonary, NO, 85

Enzymes

metabolic, respiratory muscles, 171

SOD, diaphragm, 195

Exercise

diaphragm, enzyme, 195

max O2 consumption, arterial desaturation, 123

respiratory muscle training, hypoxic ventilatory response, 179

Expiratory neurons

Bötzinger complex, 17

Fatigue

pharyngeal muscles, metabolic enzymes, 171

Flow

inspiratory, cardiac action, 103

threshold, motor output inhibition, 1

Gas exchange

pulmonary, capillary transit time, 203

pulmonary embolism, 217

pulmonary sepsis, 109

Gene

transfer, airways smooth muscle, 155

Growth

lung hypoxia, 241

Heart

cardiogenic airflow, 103

Heterogeneity

lung gas exchange, sepsis, 109

inspired gas, bronchial blood flow, 235

Hypercapnia

air hunger, 47

Hypobaria

lung growth, 241

Hypoxemia

pulmonary gas exchange, sepsis, 109

Hypoxia

acclimatization, VLM neurons, 23

chronic, pulmonary vasoconstriction, 85

lung growth, 241

pulmonary vasoconstriction, almitrine, 225

repetitive vs. continuous, 135

ventilatory response, respiratory muscle training, 179

transport, laryngeal receptors, 163

Larynx diphenyleneiodonium, DPI, 225 afferents, water-responsive, 163 papaverine, 143 U 46,619, 225 Lung volume and maximal diaphragm activation, 69 Pressure Mammals maximal inspiratory, diaphragm activation, 69 baboon, 109 upper airways, muscles, 187 cat, 17, 163, 171 Pulmonary artery dog, 187, 217 pressure, hypoxia, 225 horse, 123 Pulmonary circulation humans, 1, 47, 69, 103, 179, 235 capillary transit time, 203 lamb, 57 Receptors mouse, 195 laryngeal, water-responsive, 163 piglets, 135 Respiratory muscles rabbit, 95, 203 diaphragm, maximal activation, lung volume, 69 rat, 23, 35, 85, 155, 171, 225, 241 Respiratory sensation sheep, 143 air hunger, 47 Marsupial Saturation opossum, 77 blood O2, max exercise, 123 Maturation Sepsis hypoxic sensitivity, preterm birth, 57 gram negative, pulmonary gas exchange, 109 Mechanics of breathing Sleep inspiratory pressure, Müller maneuver, 69 hypoxia, 135 Medulla Slice ventrolateral, neurons, hypoxia, 23 ventral medulla, 23 Motor output Smooth muscle respiratory, inhibition, 1 trachea, gene transfer, 155 Sudden Infant Death blood flow, stimulation of breathing, 143 repetitive hypoxia, 135 diaphragm, enzyme, 195 Superoxide dismutase pharyngeal, metabolic enzymes, 171 SOD, see also Enzymes, 195 respiratory, training, 179 Temperature upper airways, hypoepiglotticus, genioglossus, 187 inspired gas, bronchial blood flow, 235 weakness, cardiogenic airflow, 103 Threshold Nerve motor output inhibition, 1 superior laryngeal, 187, water-responsive endings, 163 Tissue diffusion-perfusion limitation, 123 catecholaminergic, c-fos expression, 35 Trachea ventrolateral medulla, hypoxia, 23 see Airways, 95 NO Upper airways bronchial blood flow, air temperature, humidity, 235 hypoxic pulmonary vasoconstriction, 85 Oxygen hypoepiglotticus, genioglossus muscles, 187 consumption, maximal, 123 pharyngeal muscles, metabolic profiles, 171 uptake, lung, pulmonary capillary transit time, 203 Vasoconstriction Ozone hypoxic, pulmonary arteries, 85 airway reactivity, 95 Ventilation Perfusion peripheral circulation, 143 bronchial, 77 Virus lung, embolism, 217 recombinant adenovirus, gene transfer, 155 Pharmacological agents Volume almitrine, 225 threshold, motor output inhibition, 1 almitrine analog, S 1867, 225

